

# ASUS®

## High-Speed CD-ROM Drive

### ATAPI / Enhanced IDE Interface

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With Quick Installation Guides in 9 different languages



# USER'S MANUAL

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Manual Revision:	<b>1.04</b>
Release Date:	<b>April 1998</b>

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# FCC & DOC COMPLIANCE

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## ***Federal Communications Commission Statement***

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**WARNING!** The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## ***Canadian Department of Communications Statement***

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

# SAFETY WARNINGS

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## ***ASUS High-Speed CD-ROM Drive Safety Warnings***

CLASS 1 LASER PRODUCT

APPAREIL A LASER DE CLASSE 1

KLASS 1 LASER APPARAT

LUOKAN 1 LASERLAITE

PRODUIT LASER CATEGORIE 1

**CAUTION** INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.

**ADVARSEL** LASERSTRÅLING VED ÅBNING SE IKKE IND I STRÅLEN.

**ADVARSEL** LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN.

**VARNING** LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN.

**VARO!** AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE.

**VARNING** LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD. ÄLÄ TUIJOTA SÄTEESEEN. STIRRA EJ IN I STRÅLEN.

**VORSICHT** UNSICHTBARE LASERSTRAHLUNG WENN GEÖFFNET. NICHT IN DEN STRAHL SEHEN.

**ATTENTION** RADIATION DU FAISCEAU LASER INVISIBLE EN CAS D'OUVERTURE. EVITER TOUTE EXPOSITION AU FAISCEAU.

**CAUTION** USE OF ANY CONTROLS OR ADJUSTMENTS OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. TO PREVENT EXPOSURE TO LASER EMANATIONS (HARMFUL TO HUMAN EYES), **DO NOT** ATTEMPT TO DISASSEMBLE THIS UNIT.

# ITEM CHECKLIST

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The package should contain the following items along with the drive. Check to see if you have all these items. If you discover damaged or missing items, contact your retailer.

- ☒ (1) CD-ROM Drive
- ☒ (1) CD audio cable
- ☒ (1) bag of mounting screws
- ☒ (1) installation disk
  - CD-ROM driver
  - Installation utility
  - Readme files for descriptions and use of the files
- ☒ (1) User's Manual with Quick Installation Guides in different languages

# I. INTRODUCTION

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Thank you for purchasing the High-Speed CD-ROM Drive. The CD-ROM Drive adds multimedia capabilities, such as sound and video, into your system. With it, you can take advantage of the thousands of CD titles available today for your entertainment, education, and productivity.

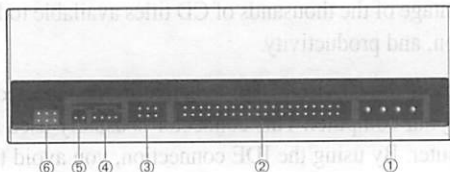
One of the features of the CD-ROM Drive is that it is connected by means of the IDE connector of your computer. This connector is usually used to install the hard disk to your computer. By using the IDE connection, you avoid the need to use an interface card.

This User's Manual explains how to install the CD-ROM Drive and the software to use your new drive. Installation is quick and easy if you follow the instructions carefully.

You'll also learn from this manual how to use your CD-ROM Drive and detect and solve any problems you might encounter.

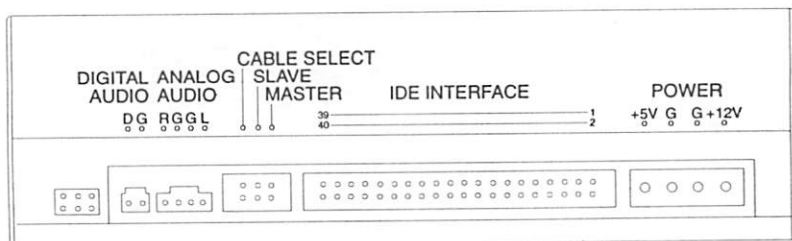
## II. HARDWARE INSTALLATION

### Rear Panel Features



- ① **Power Supply connector** connects the CD-ROM Drive to the computer's power supply.
- ② **IDE Interface connector** connects the CD-ROM Drive to the 40-pin interface cable.
- ③ **Device configuration jumper** allows you to set your CD-ROM Drive as the Master or Slave drive. The default setting is Slave, wherein the jumper is on "SLAVE". "CABLE SELECT" is reserved and should not be used.
- ④ **Analog Audio line out connector** has two channels, right ("R") and left ("L") audio outputs, and allows you to direct audio output from your CD-ROM Drive to your sound card when connected using a CD audio cable. "G" is for Ground.
- ⑤ **Digital Audio output connector** offers high quality audio effect by outputting digital signal to a D/A converter or for recording to a digital audio tape (DAT) or professional audio recording system. The connector follows the EBU-IEC958 standard set by the European Broadcast Union.
- ⑥ **Testing jumpers** are reserved for manufacturer's internal testing or diagnostic purposes.

### Pin Definitions



D: Digital; G: Ground; R: Right audio channel; L: Left audio channel

**NOTE:** The pin settings or definitions of the connectors and jumpers are also engraved on the Rear Panel of your CD-ROM Drive.



## II. HARDWARE INSTALLATION

Before you begin to install your CD-ROM Drive, read through at least once the installation process. You'll find the installation easier and you'll also be able to know whether you need to take alternative steps for installing your drive. You might need both a flat-blade and a Phillips-head screwdriver to complete the hardware installation.

### Removing Your Computer's Cover

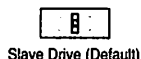
1. Quit any applications you may be running and turn off the power to your computer and peripheral devices, such as your printer.
2. Ground yourself by using a wrist strap. If you do not have one, touch both of your hands to a safely grounded object or a metal object on your system.

**NOTE:** Your computer must be plugged into a three-prong grounded socket if you choose to ground yourself by touching your system.

3. Remove the cover from your computer. Refer to your computer's manual for specific instructions.

### Setting Your CD-ROM Drive

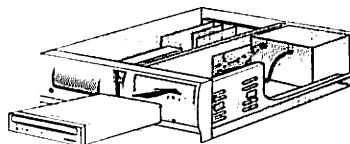
Set your drive as either the Master or Slave (default) drive by placing the jumper cap on the desired jumper ③.



**NOTE:** If your computer only allows you to connect a maximum of two devices and you have two hard disks, remove the Slave hard disk — you need the other IDE connector for your CD-ROM Drive. If you only have one hard disk, set your CD-ROM Drive as Slave. If your computer has two IDE connectors and two hard disks installed, either set your CD-ROM Drive as Master on the secondary IDE connector or remove the Slave hard disk and replace it with your CD-ROM Drive. Refer to your computer's manual for your system's configuration and instructions on hardware installation.

### Inserting Your CD-ROM Drive into Your Computer

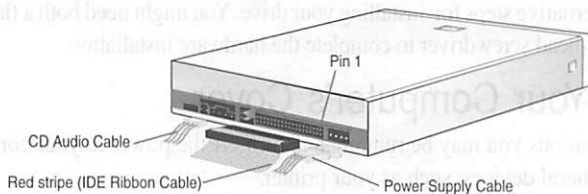
Insert the CD-ROM Drive into one of the free 5.25-inch bays available for disk drives.



**NOTE:** Do not slide the drive completely into the vacant drive bay. Leave some space at the rear so that it is easier for you to connect cables to your drive.

## II. HARDWARE INSTALLATION

### Connecting Cables to the CD-ROM Drive



1. Connect an unused power supply cable to the back ① of your CD-ROM Drive.
2. Connect the 40-pin IDE ribbon cable to the back ② of your CD-ROM Drive.

**NOTE:** Orient the red stripe on the cable with Pin 1 of the CD-ROM Drive's IDE Interface connector.

3. If you have a sound card, connect the 4-pin CD audio cable to the CD-ROM Drive's *Analog Audio line out* connector ④. Otherwise, proceed to the next step.

**NOTE:** If the pin definitions on your sound card are not the same as that (see preceding section) on your CD-ROM Drive, check with your dealer for a compatible cable.

4. If you do not have a sound card, plug earphones, headphones, or powered/self-amplified speakers to the Headphones Jack on your CD-ROM's front panel (see CD-ROM DRIVE OPERATION). Set the volume controls of your drive and powered/self-amplified speakers to minimum before starting or restarting your computer. This is to prevent possible damage to the earphones, headphones, or speakers.

**NOTE:** The **Headphones Jack** can only be used to listen to audio discs.

### Reassembling Your Computer

1. Tuck all cables behind the drives so that they do not protrude above the power supply unit.
2. Double-check your connections to make sure they are secure.
3. If you removed any drive or other items other than your CD-ROM Drive, put them back into place and secure them to your computer.
4. Slide your CD-ROM Drive now into place and fasten it to your system with the screws provided.
5. Replace the cover on your computer and secure it with the screws you removed earlier.
6. Reconnect the power supply.

You can now go on to install the software.

### III. SOFTWARE INSTALLATION

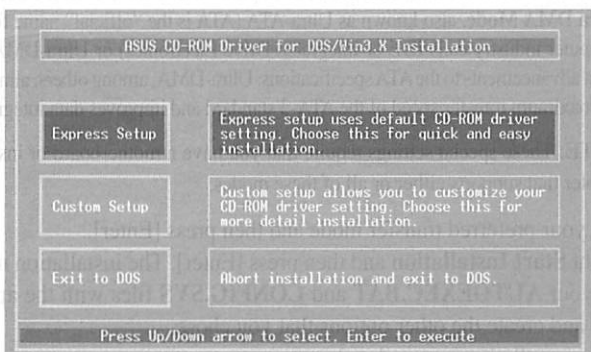
The CD-ROM Drive comes with a CD-ROM Driver for DOS/Win 3.x Installation disk, which includes an installation utility that installs the driver needed to access and use a CD-ROM disc in your CD-ROM Drive. The disk contents include:

- ASUSCD.SYS      DOS/Win 3.x Driver
- INSTALL.EXE     Installation utility
- README.TXT     Description and use of the files

In addition to the hardware-dependent driver, a software-dependent driver is installed: MSCDEX.EXE (version 2.21 or later), which is the Microsoft CD-ROM Extension, a standard mechanism for interfacing CD-ROM drives with computers. The driver comes with your operating system, for example, MS-DOS.

#### DOS/Windows 3.x

1. Restart your computer in DOS Mode.
2. Insert the CD-ROM Driver for DOS/Win 3.x Installation disk into either drive A or drive B.
3. Type **A:** **install** (or **B:** **install**) and then press [Enter].
4. Choose your preferred setup option and then follow the instructions on the screen.



#### Express Setup

Choose the express setup option for quick and easy installation. For most users, this option, which installs the default CD-ROM driver setting, works just fine.

A directory, **C:\ASUS\_CD**, containing the CD-ROM Driver and installation file, is created during the installation, and your **AUTOEXEC.BAT** and **CONFIG.SYS** files will be updated with the following entered:

**AUTOEXEC.BAT:** C:\DOS\MSCDEX.EXE /D:MSCD000

**CONFIG.SYS:** DEVICE=C:\ASUS\_CD\ASUSCD.SYS /D:MSCD000

# III. SOFTWARE INSTALLATION

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## *Custom Setup*

Choose the custom setup option to customize installation settings, such as the target directory for the driver and installation files, and special settings.

To take advantage of the special settings to fully use your drive's capability, highlight **Transfer Mode** under the **Custom Setup** dialog box and then press [Enter]. The different transfer mode options will be displayed:

- **PIO Mode** or Programmed Input/Output Mode is the most common way computers transfer data to and from the disk drive. PIO Mode 4, which is the mode installed, differs only from the standard PIO transfer in how often the drive issues interrupts. In PIO Mode 4, each interrupt indicates the drive is ready for 4 sectors of data (read) or has completed the transfer of 4 sectors of data (write), compared with the one interrupt required in standard PIO for each sector. This eliminates some of the system overhead involved in a PIO transfer.
- **Multi-word DMA Mode** or Multi-word Direct Memory Access Mode is used in EISA-, VESA Local Bus-, and PCI-equipped systems. This mode is capable of very fast transfer rates using Bus Mastering. The advantage of using the Bus Master DMA is that it uses less CPU resources than PIO and therefore, it is useful in multitasking environments, where the CPU can work on a different program while data is transferred to or from the hard disk drive, or in your case, your CD-ROM Drive.
- **Ultra DMA Mode**, also known as Ultra-ATA (ATA is the "official" name for what the computer industry calls IDE or Integrated Drive Electronics) or Ultra-DMA/33, is the latest advancements to the ATA specifications. Ultra-DMA, among others, almost doubles the maximum transfer speed of the ATA-3 standard and improves data integrity.

**NOTE:** These special settings require that you have a motherboard or install an adapter that supports either or all of these modes.

5. Choose your preferred transfer mode and then press [Enter].
6. Highlight **Start Installation** and then press [Enter]. The installation utility will update your **AUTOEXEC.BAT** and **CONFIG.SYS** files with the appropriate settings and create the other options that you chose.
7. After the installation is completed, restart your computer.

## Windows 95/Windows NT

If your CD-ROM Drive is already installed, Windows 95 or Windows NT will automatically detect it and determine the appropriate settings for the drive and install or load the correct driver.

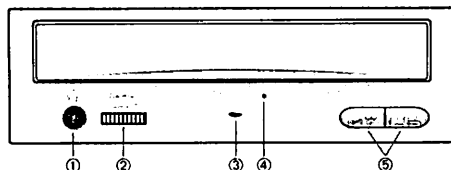
## OS/2 and Other Operating Systems

Your CD-ROM Drive supports the ATAPI drive interface. Your system should be able to automatically detect your CD-ROM Drive and load the appropriate device driver.

## IV. CD-ROM DRIVE OPERATION

Now that you've installed your CD-ROM Drive, you're ready to start using it. To start using your CD-ROM Drive, you need to know how to (1) operate the CD-ROM Drive using the controls on the front panel, (2) insert CD discs into and remove them from the drive, and (3) handle CD discs.

### Front Panel Controls



- ① **Headphones Jack** allows you to connect a pair of earphones or headphones to the drive for private listening. It also allows you to connect a pair of powered/self-amplified speakers. Just plug them into the Headphones Jack.
- ② **Volume Controls** allows you to adjust the volume of your earphones, headphones or powered/self-amplified speakers connected to the Headphones Jack. This control has no effect on the audio output from devices (such as speakers) connected to your sound card.
- ③ **Disc Indicator** lights up when there is a disc inside your CD-ROM Drive, otherwise this indicator will not light. This indicator flashes whenever your CD-ROM Drive is busy reading information from your disc or when your drive is in use.
- ④ **Emergency Ejection Hole** allows you to manually eject the tray in case of power failure. See **Emergency Eject** for more information.
- ⑤ **Select Buttons** allows you to manually control your audio discs without having to run any software program.

#### Open/Close/Stop Button

The right button has three states: OPEN, CLOSE, and STOP. If tray is closed, pressing this button will OPEN or eject it. If tray is out, pressing this button will CLOSE it. If the drive is playing, pressing this button will STOP CD playback.



#### Play/Skip Button

The left button has two states: PLAY track and SKIP track. If the drive is idle, pressing this button will start PLAYing audio discs from the first track on. If the drive has been PAUSED, pressing this button will resume CD playback or rePLAY the audio discs. If the drive is playing, pressing this button will SKIP to the next track of an audio disc.



# IV. CD-ROM DRIVE OPERATION

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## Inserting a CD Disc in the Drive

1. Select the disc you want to use and remove it from its storage case.
2. Eject the disc tray by pressing the **Open/Close/Pause/Stop** button on your CD-ROM Drive.
3. Handling the CD disc by its outer edges, place it in the tray.

**NOTE:** All CD discs have printing on one side and this side should always be facing up when the disc rests in the disc tray. See **CD Handling Tips** for more suggestions.

4. Close the tray by pressing the **Open/Close/Pause/Stop** button or by gently pressing the tray panel until you encounter slight resistance and then giving it a slight nudge. Your drive will pull the tray in the rest of the way.

## Removing a CD Disc from the Drive

1. Check to make sure that your CD-ROM Drive is not in use before attempting to remove it.
2. Press the **Open/Close/Pause/Stop** button on the drive Front Panel to eject the CD tray.
3. Remove the CD disc from the tray and store it back to its original case.

## CD Handling Tips

Your CD disc collection will probably grow over time. You should, therefore, always exercise care when handling CD discs.

- Keep your CD discs in their original case when they're not in use. Scratches on the surface of a disc can distort the information, or even make it impossible to read.
- Always handle CD discs by their outer edges. Oily fingerprints or other smudges on the surface tend to accumulate dirt. Placing a dirty disc in your CD-ROM Drive can distort your data or even damage the drive mechanism.
- If a CD disc becomes dirty, clean both sides with a damp cloth by wiping gently from the center spindle hole **out toward the edge** of the disc. Wiping in any other direction grinds the dirt into the protective surface.
- When cleaning any CD discs, **do not** use abrasives or chemical solvents, including benzine, thinner, or commercial cleaners intended for use with audio discs.
- Insert CD discs in the tray with the printed side facing up.
- Store your CD discs where they will not be subjected to direct sunlight or high temperatures.
- Do not apply adhesive labels or tapes to, or write on any part of a CD disc.

## IV. CD-ROM DRIVE OPERATION

### Emergency Eject

In case of power failure or if the tray of your CD-ROM Drive won't open using the **Open/Close/Pause/Stop** button or your software, you may have to manually eject the tray.

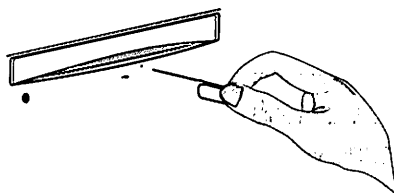
**NOTE:** Use the manual method only when necessary or as a last resort. Do not use this method in lieu of the **Open/Close/Pause/Stop** button when, for example, you forgot to eject the tray while the computer is on. Turn your computer back on to eject the tray, if possible.

To manually eject the tray:

1. Turn off your computer.

**WARNING!** If you don't turn off your computer before you attempt to eject the tray using the steps below, you may damage your CD-ROM Drive.

2. Locate the **Emergency Ejection Hole** of your CD-ROM Drive. See **Front Panel Controls** for the location.
3. Insert the end of a large straightened paper clip about 3 cm (1.25 inches) into the **Emergency Ejection Hole**, slightly toward the right.



4. Push gently but firmly until the tray is released, then carefully pull the tray open.

**WARNING!** Do not force the tray open; wait until the paper clip has dislodged it to be sure you don't break the front of the tray.

5. Remove the CD disc, turn on your computer, and press the **Open/Close/Pause/Stop** button of your CD-ROM Drive to see if it is working properly.

**NOTE:** If ejecting the tray using a paper clip does not work, your CD-ROM Drive may be damaged. Contact your dealer for further assistance.

## V. TROUBLESHOOTING

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- PROBLEM** Unable to access CD-ROM Drive.
- CAUSES**
1. The information in your CONFIG.SYS or AUTOEXEC.BAT or both files might be incorrect. (DOS only.)
  2. Some BIOS that include power management features use IRQ14 or IRQ 15, which should be reserved for IDE devices like your CD-ROM Drive. (DOS only.)
- SOLUTIONS**
1. Check the LASTDRIVE= entry in your CONFIG.SYS file. You might have to set the drive letter to one higher than your actual last drive letter. For example, if the last drive on your system is drive D, try setting the parameter in the CONFIG.SYS file to LASTDRIVE=E. (DOS only.)
    - Your CD-ROM Drive requires the drivers, MSCDEX.EXE and ASUSCD.SYS, to access the drive. Check your AUTOEXEC.BAT file for the statement C:\DOS\MSCDEX.EXE /D:MSCD000 and CONFIG.SYS file for the statement DEVICE=C:\ASUS\_CD\ASUSCD.SYS /D:MSCD000 (see **Software Installation** for more information). (DOS only.)
  2. Change the IRQ setting of the device that is using IRQ 14 or IRQ 15, for example, sound card or motherboard. Refer to the card or motherboard documentation for more information. (DOS only.)

- PROBLEM** No sound from speakers.
- CAUSES**
1. Audio cable or speakers are not connected properly.
  2. The volume is not adjusted to an audible level.
  3. The drive may be faulty.
  4. The card may be faulty.
- SOLUTIONS**
1. Check that the CD audio cable is connected to the Analog Audio line out connector on the drive and sound card. Check also that the pin definitions of your CD-ROM Drive and sound card are the same. If not, check with your dealer for a compatible CD audio cable or ask a qualified technician to adjust the cables to match your CD-ROM Drive's pin definitions. Also, check that the speakers are connected to the correct jack on the sound card.
  2. Make sure the volume control is turned up to an audible range.
  3. Connect earphones or headphones to the Headphones Jack. If there is no sound from your earphones or headphones, consult your dealer about your faulty drive.



## V. TROUBLESHOOTING

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4. Connect earphones or headphones to the sound card's Headphones Jack. If there is no sound from your earphones or headphones, check to see the CD audio cable is connected from the drive to the sound card (refer to your sound card manual for more information). If the audio cable is connected and there is still no sound from your earphones or headphones, consult your dealer about your faulty card.

**PROBLEM** Cannot detect the CD-ROM Drive (Windows 95 or Windows NT).

**CAUSE** There are times when Windows cannot detect a new hardware.

**SOLUTION** Install the drivers manually.

- Start the **Add New Hardware** wizard by clicking **My Computer** | **Control Panel** | **Add New Hardware** and then follow the instructions on your screen.

**NOTE:** Let Windows detect your CD-ROM Drive. Make sure you have installed and connected your CD-ROM Drive in your computer before running the wizard.

**PROBLEM** Cannot achieve the maximum data transfer rate performance specified for the CD-ROM Drive using benchmarking utilities.

**CAUSE** Your CD-ROM Drive uses Constant Angular Velocity (CAV) technology, wherein the spindle motor is running at the same velocity, while the drive is accessing data at the inner or outer tracks. In this way, the CD-ROM will achieve lower data transfer rates at the inner tracks and higher transfer rates at the outer tracks. Thus using older benchmarking utilities, such as WinBench 96, will give lower data transfer rates because these utilities use the drive's inner tracks for its performance tests.

**SOLUTION** Upgrade your benchmarking utility to one that supports tests on the outer tracks of your drive, for example, WinBench 98.

**PROBLEM** When playing a CD disc, there's no image on the screen.

**CAUSE** The disc may be an audio CD that does not have any screen images, or the disc may be defective.

**SOLUTION** Make sure the disc is not audio-only. To check if a disc is defective, examine it closely for deep scratches, pitting, or warping. CD discs are covered with a hard coating that protects the disc, but deep scratches, pitting, and warping can make a disc unplayable.

## V. TROUBLESHOOTING

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**PROBLEM** Data transfer rate performance seems slower than expected.

**CAUSE** Given the signal quality issues with PIO Mode 4 transfer rates in some systems and such variables as error correction, caching, processor overhead, and rotational speed, higher transfer rates may not be achievable with the default transfer mode. Thus transfer rates may be lower.

**SOLUTION** Change the transfer mode of your CD-ROM Drive to Multi-word or Ultra DMA Mode to maximize its capability.

- For DOS, see **Custom Setup** under SOFTWARE INSTALLATION for more information.
- For Windows 95 or Windows NT, Bus Master driver must be installed. Unless your computer dealer installed the driver when you bought it or your motherboard supports Bus Master mode, Windows will not use bus mastering for your CD-ROM Drive.
- Click **My Computer | Control Panel | System | Device Manager | CD-ROM controllers**. If you are using the bus master, PCI Bus Master will be displayed. If not and your motherboard has the new PCI controller chipsets from Intel, for example, the 430TX or 440BX, but does not have a CMOS setting for Bus Master mode, you may have to get the driver from Intel. Check with your dealer for more information.

**PROBLEM** Cannot display the directory on an audio CD disc with the DIR command.

**CAUSE** The DIR command does not work with audio CD discs while in DOS. You can use the command, however, to display the directory on a data CD.

**NOTE:** You can use the DIR command to display the directory on an audio disc while in Windows using the command prompt or MS-DOS Prompt. Refer to your Windows manual on how to find the command prompt.



High-Speed CD-ROM Drive

## Quick Installation Guides

English

French

German

Italian

Spanish

Russian

Japanese

Simplified Chinese

Traditional Chinese



# QUICK INSTALLATION GUIDE

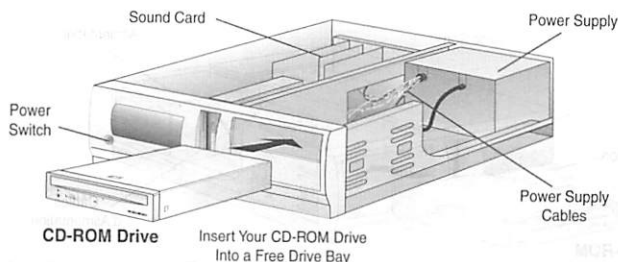
- I. Check that your package is complete: CD-ROM Drive, CD audio cable, mounting screws, installation disk, and user's manual.

## II. Hardware Installation

1. Turn off your computer and peripheral devices, such as your printer.
2. Ground yourself by using a wrist strap. If you do not have one, touch both of your hands to a safely grounded object or to a metal object on your system.
3. Remove the cover from your computer.
4. Set your drive as either the Master or Slave (default) drive by placing the jumper cap on the desired jumper.
5. Insert the CD-ROM Drive into one of the free 5.25-inch bays available for disk drives.
6. Connect an unused power supply cable to the back of your CD-ROM Drive.
7. Connect the 40-pin IDE ribbon cable to the back of your CD-ROM Drive. Make sure that the red stripe on the cable is aligned to Pin 1 of the IDE connector.
8. If you have a sound card, connect the 4-pin CD audio cable to the CD-ROM Drive's *Analog Audio line out* connector. If you do not have a sound card, plug earphones, headphones, or powered/self-amplified speakers to the Headphones Jack on your CD-ROM's front panel. Set the volume controls of your drive and powered/self-amplified speakers to minimum before starting or restarting your computer.
9. If you removed any drive or other items other than your CD-ROM Drive, put them back into place and secure them to your computer.
10. Slide your CD-ROM Drive now into place and fasten it to your system with the screws provided.
11. Replace the cover on your computer and secure it with the screws you removed earlier.
12. Reconnect the power supply.

## III. Software Installation

1. For DOS/Windows 3.x, insert the CD-ROM Driver for DOS/Win 3.x Installation disk into either drive A or drive B, type **A: install** (or **B: install**) and then press [Enter], choose your preferred setup option and then follow the instructions on the screen, and then restart your computer after installation is complete.
2. For Windows 95 or Windows NT, Windows will automatically detect and determine the current settings for your drive and install the correct driver.
3. For other operating systems, your CD-ROM Drive supports the ATAPI drive interface and your system should be able to load the appropriate driver for your drive.



# GUIDE D'INSTALLATION RAPIDE

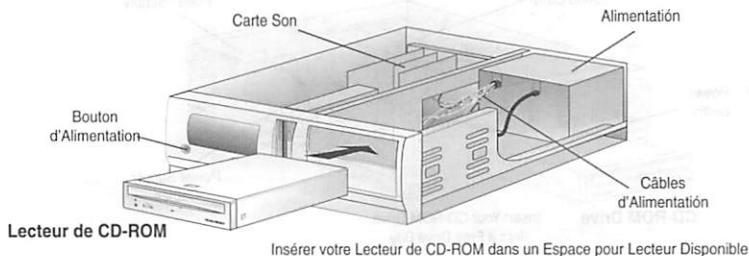
- I. Vérifiez que votre ensemble est complet : Lecteur de CD-ROM, câble CD audio, vis de montage, disque d'installation, et notice d'explication.

## II. Installation du Matériel

1. Eteignez votre ordinateur et ses périphériques, tel que l'imprimante.
2. Reliez vous à la terre par une courroie à votre poignet. A défaut, maintenez le contact de vos deux mains avec un objet lui-même relié à la terre, ou à une partie en métal de votre système.
3. Enlevez le couvercle de votre ordinateur.
4. Réglez votre lecteur en tant que lecteur Maître ou Esclave (choix par défaut) en plaçant le cavalier sur la position désirée.
5. Insérez le lecteur de CD-ROM dans l'un des emplacement libre de 5.25 pouces disponible pour les drivers.
6. Connectez un câble d'alimentation inutilisé à l'arrière de votre lecteur de CD-ROM.
7. Connectez la nappe 40 broches à l'arrière de votre lecteur de CD-ROM. Assurez vous que la bande rouge du câble est aligné avec la broche 1 du connecteur IDE.
8. Si vous possédez une carte son, connectez le câble CD-audio 4 broches à la prise *Analog Audio line out* du lecteur de CD-ROM. Si vous n'avez pas de carte son, branchez des écouteurs, casques ou enceintes autonomes à la prise jack du panneau frontal de votre lecteur de CD-ROM. Avant de redémarrer votre ordinateur, baissez le volume du lecteur et vos enceintes au minimum.
9. Si au cours de l'opération vous avez retiré des éléments autres que votre CD-ROM, remettez les en place.
10. Faites glisser votre lecteur de CD-ROM dans son emplacement et fixez le au système avec les vis fournies.
11. Replacez le couvercle de votre ordinateur avec les vis que vous avez enlevées préalablement.
12. Rebranchez l'alimentation électrique.

## III. Installation du Logiciel

1. Pour les environnements DOS/Windows 3.x, insérez la disquette d'installation du lecteur de CD-ROM pour DOS/Win 3.x dans le lecteur A ou B, tapez **A: install** (ou **B: install**) puis tapez [Entrée], choisissez vos paramètres d'installation et suivez les instruction sur l'écran, redémarrez votre ordinateur après la fin de l'installation.
2. Pour Windows 95 ou Windows NT, Windows détectera et déterminera automatiquement les paramètres présents et installera le bon pilote.
3. Pour les autres systèmes d'exploitation, votre lecteur de CD-ROM supporte l'interface ATAPI ce qui permettra à votre système de charger le pilote correspondant à votre lecteur.



# EINFACHE INSTALLATIONANLEITUNG

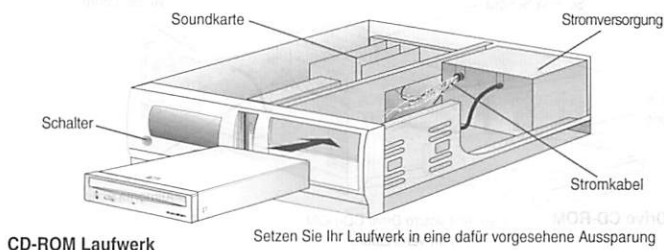
- I. Überprüfen Sie, ob Ihr Paket komplett ist: CD-ROM-Laufwerk, CD-Audio-Kabel, Schrauben, Installationsdiskette und Handbuch.

## II. Installation der Hardware

1. Schalten Sie Ihren Computer und periphere Geräte, wie z. B. Drucker, aus.
2. Erden Sie sich durch ein spezielles Band am Handgelenk. Ist ein solches Band nicht verfügbar, sollten Sie ein sicheres, geerdetes Objekt oder ein Objekt aus Metall an Ihrem PC berühren.
3. Entfernen Sie die Abdeckung Ihres Computers.
4. Schließen Sie Ihr Laufwerk entweder als Master oder Slave (default) an, indem Sie den Jumper an die gewünschte Stelle setzen.
5. Setzen Sie das CD-ROM-Laufwerk in die dafür vorgesehene Aussparung in Ihrem System.
6. Schließen Sie ein ungenutztes Stromversorgungskabel an Ihrem CD-ROM-Laufwerk an.
7. Schließen Sie das 40-pin IDE Kabel an Ihrem CD-ROM-Laufwerk an. Vergewissern Sie sich, dass der rote Streifen auf der Seite von Pin 1 des IDE-Anschlusses liegt.
8. Sollten Sie eine Soundkarte haben, schließen Sie das 4-pin CD-Audiokabel am Analog Audio line out-Anschluß des CD-ROM-Laufwerks an. Haben Sie keine Soundkarte, schließen Sie einen Kopfhörer oder Lautsprecher an die Lautsprecherbuchse auf der Vorderseite des CD-ROM-Laufwerks an. Drehen Sie die Lautstärkeregler des Laufwerks und der Lautsprecher auf Minimum bevor Sie Ihren Computer starten oder neu starten.
9. Falls Sie außer Ihrem CD-ROM-Laufwerk noch andere Geräte entfernt haben, setzen Sie diese wieder ein und verbinden Sie mit Ihrem System.
10. Setzen Sie nun Ihr Laufwerk ein und befestigen Sie es mit den mitgelieferten Schrauben.
11. Setzen Sie die Abdeckung wieder auf Ihren Computer und befestigen Sie sie mit den vorher entfernten Schrauben.
12. Schließen Sie die Stromversorgung wieder an.

## III. Installation der Software

1. Unter DOS/Windows 3.x legen Sie die Treiberdiskette für DOS/Windows 3.x in Laufwerk A oder B und geben **A:\install** (oder **B:\install**) ein. Drücken Sie die Enter-Taste und wählen Sie die bevorzugte Setup Option aus. Folgen Sie danach den Anweisungen auf dem Bildschirm und starten Ihren Computer nach Beendigung der Installation erneut.
2. Unter Windows 95 oder Windows NT werden automatisch die richtigen Einstellungen vorgenommen und der richtige Treiber installiert.
3. Bei anderen Betriebssystemen unterstützt Ihr CD-ROM-Laufwerk das ATAPI-Treiberinterface und Ihr System ist in der Lage, den jeweiligen Treiber für Ihr Laufwerk zu laden.

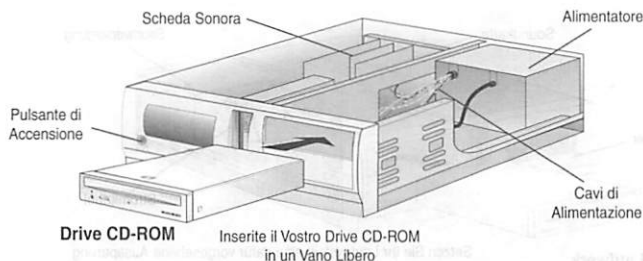


# GUIDA PER UNA INSTALLAZIONE VELOCE

- I. Verificate che la confezione sia completa di: drive CD-ROM, cavo CD audio, viti di montaggio, dischetto d'installazione e il manuale d'uso.
- II. **Installazione Hardware**
1. Spegnete il computer e i dispositivi periferici, quali la stampante.
  2. Collegatevi alla massa con un bracciale anti statico. Se non ne avete uno, toccate con entrambe le mani una superficie collegata a terra o una parte metallica del vostro sistema.
  3. Aprite il gabinato.
  4. Configurate il CD-ROM drive come master o come slave (default) spostando il jumper nella posizione adeguata.
  5. Inserite il CD-ROM drive in un vano da 5,25" libero.
  6. Alimentate il CD-ROM con un cavo di alimentazione non utilizzato.
  7. Connettete il cavo IDE da 40 poli al connettore IDE del CD-ROM. Assicuratevi che il lato con la striscia rossa sia allineato al pin 1 del connettore IDE.
  8. Se avete una scheda sonora connettete il cavo audio a 4 pin al connettore *Analog Audio line out* del CD-ROM. Se non avete una scheda sonora inserite una cuffia o delle casse acustiche all'uscita per cuffie sul pannello frontale del CD-ROM. Impostate il controllo del volume del drive e delle casse acustiche al minimo prima di avviare il computer.
  9. Se avete rimosso altri dispositivi per installare il CD-ROM drive rimettetele al posto e fissatele al computer.
  10. Fissate nella giusta posizione il CD-ROM tramite le viti fornite.
  11. Richiudete il computer.
  12. Riconnettete il cavo di alimentazione.

III. **Installazione Software**

1. Per i sistemi operativi DOS/Windows 3.x, inserite il dischetto con il driver per DOS/Win 3.x nel drive A o drive B, digitate **A: install** (o **B: install**) e premete [Invio], scegliete le opzioni di setup preferiti e seguite le istruzioni a schermo. Al termine dell'installazione riavviate il computer.
2. Per Windows 95 o Windows NT, Windows rileverà automaticamente il vostro drive e installerà il driver corretto.
3. Per altri sistemi operativi il drive CD-ROM supporta l'interfaccia ATAPI e il vostro sistema dovrebbe essere in grado di caricare il driver appropriato.





# GUÍA DE INSTALACIÓN RÁPIDA

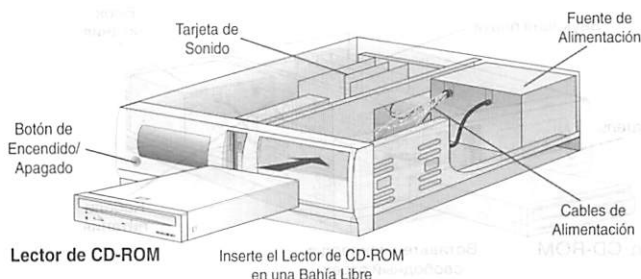
- I. Compruebe que los siguientes elementos estén incluidos en el embalaje: lector de CD-ROM, cable CD audio, tornillos de montaje, disco de instalación y manual de usuario.

## II. Instalación de la Unidad

1. Apague su equipo y los periféricos conectados a él, como, por ejemplo, la impresora.
2. Utilice una muñeca antiestática para evitar dañar el equipo. Si no dispone de una, ponga en contacto ambas manos con un objeto con toma de tierra o con un objeto metálico de su sistema.
3. Retire la cubierta de su ordenador.
4. Configure su unidad como Principal o Subordinada -por defecto- (maestro o esclavo) conectando la salida del cable al conector que desee.
5. Inserte la unidad del CD-ROM en una de las bahías de 5.25" libres para unidades de disco.
6. Conecte un cable de alimentación libre en la parte trasera del lector de CD-ROM.
7. Conecte el cable plano IDE de 40 pines en la parte posterior de su unidad de CD-ROM. Asegúrese de que la franja roja del cable esté alineada con el pin 1 del conector IDE.
8. Si posee usted una tarjeta de sonido, conecte el cable CD audio de 4 pines al conector de salida de audio analógica (*Analog Audio line out*) del lector de CD-ROM. Si no dispone de tarjeta de sonido, conecte los auriculares, altavoces o altavoces autoamplificados en la clavija (tipo *jack*) para auriculares localizada en el panel frontal del lector de CD-ROM. Configure los controles de volumen de su unidad y de los altavoces al mínimo antes de iniciar o reiniciar su ordenador.
9. En caso de que hubiese extraído alguna unidad o cualquier otro elemento además de su lector de CD-ROM, emplácelos de nuevo en su anterior posición y fíjelos debidamente.
10. Inserte el lector de CD-ROM en la posición deseada y fíjelo con los tornillos entregados.
11. Coloque de nuevo la cubierta de su ordenador y fíjela con los tornillos retirados anteriormente.
12. Conecte de nuevo la fuente de alimentación.

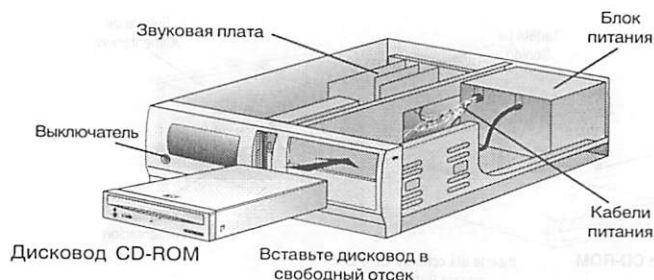
## III. Instalación del Software

1. Para DOS/Windows 3.x, inserte el disco de instalación para DOS/Win 3.x en las unidades A o B, teclee **A: install** (o **B: install**) y a continuación pulse [Enter], escoja la opción de sistema adecuada y siga las instrucciones en pantalla. Reinicie su ordenador una vez completada la instalación.
2. En Windows 95 o Windows NT, Windows detectará automáticamente la unidad y realizará los ajustes necesarios para el lector de CD-ROM, así como la instalación del driver necesario.
3. Para otros sistemas operativos, el lector de CD-ROM soporta la interfaz de drive ATAPI y su sistema operativo podrá cargar el driver adecuado para el lector de CD-ROM.



## КРАТКИЙ СПРАВОЧНИК ПО УСТАНОВКЕ

- I. Проверьте, что вы получили весь комплект поставки: дисковод для компакт-дисков (дисковод CD-ROM), аудиокабель, винты, установочную дискету и руководство пользователя.
- II. Установка аппаратуры
1. Выключите компьютер и периферийные устройства, такие как принтер.
  2. Наденьте защитный браслет для заземления. Если у вас нет браслета, прикоснитесь обеими руками к надежно заземленному объекту или к металлической части компьютера.
  3. Снимите с компьютера крышку.
  4. Задайте для дисковода режим работы: основной (Master) или вспомогательный (Slave)—выбирается по умолчанию) путем соответствующей установки переключки.
  5. Вставьте дисковод в один из свободных отсеков, предназначенных для установки 5,25-дюймовых дисководов.
  6. Подсоедините к задней стороне дисковода свободный кабель питания.
  7. Подсоедините к задней стороне дисковода 40-контактный IDE-кабель (шлейф). При этом красная полоска на кабеле должна быть совмещена с контактом 1 IDE-разъема.
  8. Если у вас есть звуковая плата, подсоедините 4-контактный аудиокабель к разъему дисковода, соответствующему аналоговому выходу. Если у вас нет звуковой платы, подключите наушники или динамики к разъему для головного телефона, расположенному на передней панели дисковода. Прежде чем включать или перезапускать компьютер, установите минимальный уровень громкости для дисковода и динамиков.
  9. Если вы предварительно извлекли из компьютера какой-либо дисковод или другое устройство (кроме дисковода CD-ROM), верните их на место и надежно закрепите.
  10. Вставьте на место дисковод CD-ROM и закрепите его прилагаемыми винтами.
  11. Верните на место крышку компьютера и закрепите ее винтами, которые вы ранее сняли.
  12. Снова подключите блок питания.
- III. Установка программного обеспечения
1. Для DOS или Windows 3.x вставьте в дисковод A или B установочную дискету с CD-ROM Driver for DOS/Win 3/xh, напечатайте A: install (или B: install) и нажмите на клавишу Enter.
  2. Система Windows 95 или Windows NT автоматически обнаружит дисковод, определит его текущие параметры и установит нужный драйвер.
  3. Для работы с другими операционными системами дисковод CD-ROM поддерживает интерфейс дисководов ATAPI, а задача системы — загрузить необходимый для дисковода драйвер.



# インストール手順

## I. パッケージの内容をご確認ください

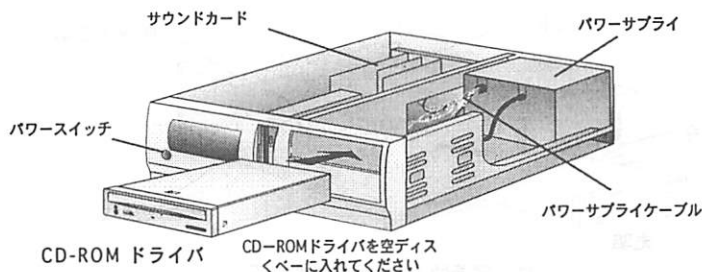
CD-ROMドライバ、CDオーディオケーブル、止めネジ、インストールディスク、ユーザズマニュアル

## II. ハードウェアのインストール方法

1. コンピュータ及び周辺機器（プリンタなど）のスイッチを切ります。
2. リストストラップなどでグラウンドします。（リストストラップなどがない場合は、両手をシステムの金属部分に触れて下さい。
3. コンピュータのカバーを取り外します。
4. ジャンパーにより、マスター及びスレーブを設定します。
5. 5.25インチベイにCD-ROMドライバを取り付けます。
6. 電源ケーブルを取り付けます。
7. IDEフラットケーブルを取り付けます。（ケーブルの赤線をコネクタ側のPin 1に合わせて、取り付けて下さい。）
8. サウンドカードがある場合は、4-Pin CDオーディオケーブルをドライバ側のAnalog Audio Line Outコネクタに接続します。（サウンドカードがない場合は、イヤホン、ヘッドホンあるいはアンプ内蔵スピーカーなどをフロントパネルのヘッドホンジャックに接続し、使用してください。また、コンピュータを起動か再起動する際に、必ずボリュームを最小にしておいて下さい。
9. CD-ROM以外のドライバなどを取り外した場合、元に戻します。
10. 付属のネジでドライバをシステムに取り付けます。
11. カバーを戻します。
12. 電源を入れます。

## III. ソフトウェアインストール

1. DOS及びWindows 3.1の場合、ドライバA（またはB）にCD-ROMドライバ forDOS/Windows 3.1のディスクを入れ、A : Install（あるいはB : Install）とタイプし、Enterを押します。好みのセットアップオプションを選択し、画面の指示に従いインストールします。インストールが終わったら、再起動します。
2. Windows 95及びNTの場合、ドライバは自動的に検出され、ドライバのインストールが行われます。
3. その他のOSの場合、ATAPIドライバインターフェイスをサポートしていれば、システムに最適なドライバをLoadします。



## 快速安装指引

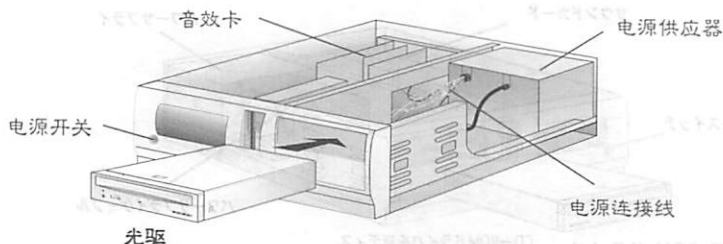
- I. 请检查本产品包装内是否含有：光驱、音效卡连接线、固定用螺丝、驱动程序安装磁盘片以及用户手册。

### II. 硬体安装程序

1. 将您的电脑与其它周边装置的电源关闭。
2. 用手触碰安全的接地装置、将自己处于接地状态，并用金属线将电脑与地连接，让电脑也成为接地状态。
3. 松开电脑外壳螺丝，并将外壳先行移开。
4. 在光驱背面用跳线帽调整光驱模式为 Master 或 Slave (内定)。
5. 将光驱放入空著的 5.25 英寸磁盘机空间。
6. 连接电源线到光驱背面的电源插口。
7. 连接 40-pin IDE 排线到光驱背面的 IDE 插口，请确定排线红色边缘对准了插口上的 Pin 1。
8. 如果在您的电脑中存在著有音效卡，请在光驱背面的 Analog Audio line out 插口上连接 4-pin 的光驱音效接线到音效卡上的光驱专用音效接线插口。如果您的电脑中并没有音效卡，请将耳机、或是具备放大器的扬声器接线插在光驱前面的耳机专用插口上。并记得等一下重新开启电脑时，先将扬声器和光驱前面的音量控制旋钮调整到最小。
9. 如果在刚才的安装程序中曾经移除其它周边装置，请将这些装置放回原来位置，并锁回刚才松开的螺丝。
10. 将光驱的位置放在最适当位置，然后用包装中所附的螺丝将之锁紧。
11. 将电脑外壳复原到原来位置，然后锁回刚才松开的的所有螺丝。
12. 重新开启电脑。

### III. 软体安装程序

1. DOS/Windows 3.x：将驱动程序安装磁盘片放入磁盘机 A 或 B，然后键入 A: install (或 B: install) 然后按下 [Enter] 键。在安装过程中选择您想要的安装选项，并跟著剩馀步骤完成驱动程序的安装，安装完毕请重新开启电脑。
2. Windows 95 或 Windows NT：Windows 会自动判断、并为您安装光驱的驱动程序。
3. 其它作业系统：本光驱支援 ATAPI 介面，您的操作系统将会为您载入适当的驱动程序。



放入空著的 5.25 英寸磁盘机空间

## 快速安裝指引

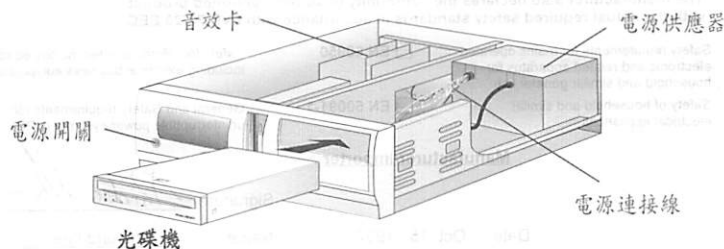
- I. 請檢查本產品包裝內是否含有：光碟機、音效卡連接線、固定用螺絲、驅動程式安裝磁片以及使用手冊。

### II. 硬體安裝程序

1. 將您的電腦與其它周邊裝置的電源關閉。
2. 用手觸碰安全的接地裝置、將自己處於接地狀態，並用金屬線將電腦與地連接，讓電腦也成為接地狀態。
3. 鬆開電腦外殼螺絲，並將外殼先行移開。
4. 在光碟機背後用跳線帽調整光碟機模式為 Master 或 Slave (內定)。
5. 將光碟機放入空著的 5.25 英寸磁碟機空間。
6. 連接電源線到光碟機背後的電源插座。
7. 連接 40-pin IDE 排線到光碟機背後的 IDE 插座，請確定排線紅色邊緣對準了插座上的 Pin 1。
8. 如果在您的電腦中存在著有音效卡，請在光碟機背後的 Analog Audio line out 插座上連接 4-pin 的光碟機音效接線到音效卡上的光碟機專用音效接線插座。如果您的電腦中並沒有音效卡，請將耳機、或是具備放大器的喇叭接線插在光碟機前面的耳機專用插座上。並記得等一下重新開啓電腦時，先將喇叭和光碟機前面的音量控制旋鈕調整到最小。
9. 如果在剛才的安裝程序中曾經移除其它周邊裝置，請將這些裝置放回原來位置，並鎖回剛才鬆開的螺絲。
10. 將光碟機置於最適當位置，然後用包裝中所附的螺絲將之鎖緊。
11. 將電腦外殼復原到原來位置，然後鎖回剛才鬆開的所有螺絲。
12. 重新開啓電腦。

### III. 軟體安裝程序

1. DOS/Windows 3.x：將驅動程式安裝磁片放入磁碟機 A 或 B，然後鍵入 A: install (或 B: install) 然後按下 [Enter] 鍵。在安裝過程中選擇您想要的安裝選項，並跟著剩餘步驟完成驅動程式的安裝，安裝完畢後請重新開啓電腦。
2. Windows 95 或 Windows NT：Windows 會自動判斷、並為您安裝光碟機的驅動程式。
3. 其它作業系統：本光碟機支援 ATAPI 介面，您的作業系統將會為您載入適當的驅動程式。



放入空著的 5.25 英寸磁碟機空間

# Declaration of Conformity

We, Manufacturer/Importer  
(full address)

**ASUS COMPUTER GmbH**  
**HARKORT STR. 25**  
**40880 RATINGEN, BRD. GERMANY**

declare that the product  
(description of the apparatus, system, installation to which it refers)

**CD-ROM**

**CD-XXXX**

X=A-Z, 0-9

is in conformity with  
(reference to the specification under which conformity is declared)  
in accordance with 89/336 EEC-EMC Directive

- |   |  |  |  |
|---|--|--|--|
| <input type="checkbox"/> EN 55011                           | Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) high frequency equipment                | <input type="checkbox"/> EN 61000-3-2*<br><input checked="" type="checkbox"/> EN60555-2          | Disturbances in supply systems caused by household appliances and similar electrical equipment "Harmonics"   |
| <input type="checkbox"/> EN55013                            | Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment                                     | <input type="checkbox"/> EN61000-3-3*<br><input checked="" type="checkbox"/> EN60555-3           | Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"                                  |
| <input type="checkbox"/> EN 55014                           | Limits and methods of measurement of radio disturbance characteristics of household electrical appliances, portable tools and similar electrical apparatus | <input checked="" type="checkbox"/> EN 50081-1<br><input checked="" type="checkbox"/> EN 50082-1 | Generic emission standard Part 1: Residual, commercial and light industry<br>Generic immunity standard Part 1: Residual, commercial and light industry |
| <input type="checkbox"/> EN 55015                           | Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaires   | <input type="checkbox"/> EN 55081-2  | Generic emission standard Part 2: Industrial environment   |
| <input type="checkbox"/> EN 55020                           | Immunity from radio interference of broadcast receivers and associated equipment   | <input type="checkbox"/> EN 55082-2  | Generic immunity standard Part 2: Industrial environment   |
| <input checked="" type="checkbox"/> EN 55022                | Limits and methods of measurement of radio disturbance characteristics of information technology equipment   | <input type="checkbox"/> ENV 55104   | Immunity requirements for household appliances tools and similar apparatus   |
| <input type="checkbox"/> DIN VDE 0855<br>part 10<br>part 12 | Cabled distribution systems: Equipment for receiving and/or distribution from sound and television signals   | <input type="checkbox"/> EN 50091- 2   | EMC requirements for uninterruptible power systems (UPS)   |

☒ CE marking



(EC conformity marking)

The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 73/23 EEC

- |                                   |   |                                     |   |
|-----------------------------------|---|-------------------------------------|---|
| <input type="checkbox"/> EN 60065 | Safety requirements for mains operated electronic and related apparatus for household and similar general use | <input type="checkbox"/> EN 60950   | Safety for information technology equipment including electrical business equipment |
| <input type="checkbox"/> EN 60335 | Safety of household and similar electrical appliances   | <input type="checkbox"/> EN 50091-1 | General and Safety requirements for uninterruptible power systems (UPS)             |

**Manufacturer/Importer**

Signature:

(Stamp)

Date: Oct. 15, 1997

Name: Richard Lee

# DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)



**Responsible Party Name:** Asus Computer International

**Address:** 721, Charcot Ave., San Jose, CA95131, U.S.A.

**Phone/Fax No:** (408)474-0567/(408)474-0568

hereby declares that the product

**Product Name:** CD-ROM

**Model Number:** CD-XXXX

X=A-Z, 0-9

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109(a),  
Class B Digital Device

## Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any inference received, including interference that may cause undesired operation.

**Representative Person's Name:** Ivan Ho/ President

**Signature:**

A handwritten signature in black ink, appearing to read 'Ivan Ho', written over a horizontal line.

**Date:**

Dec. 01, 1997



# High-Speed CD-ROM Drive

ATAPI / Enhanced IDE Interface



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